Intel MPI now available on Discover ...

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Sep 20, 2007 We now have a working version of Intel MPI on Discover. Initial tests using canned benchmarks look pretty good (thanks Rahman). We are still working on several other versions of MPI (openmpi, mpich) that we hope to make available at a later date. If anyone would like to give Intel MPI a try you can access the libraries by loading the following module:

```
module load mpi/impi-3.1.038
```

This version forces use of RDMA (over Infiniband). Also, please be aware that the Intel module requires a compiler module be loaded as well. Please report any problems you encounter to support@nccs.nasa.gov

A few more quick notes:

- to be successful with Intel MPI you will need to have passwordless SSH keys set up

- if you run into problems please try setting the I_MPI_DEBUG environment variable to "5" which will print out some extra environmental info.

- the default behavior for Intel MPI is to round robin all of the processes across all of the nodes available in the nodes file. To change this behavior use the "-perhost" option to mpirun (for instance, for 4 processes per node: "-perhost 4" will get 4 processes placed on each node in sequence). The "-perhost" option must be specified before the "-np" option to mpirun.

-Nick

Message was edited by: aartsen

- Added topic tags

Tags: discover, mpi, intel